

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	17	("5201721" "5336252" "5535756" "5715832" "5738109" "5779646" "5797849" "5931787" "5957863" "6102867" "6254573" "6321109" "6540725" "6575931" "6623473" "6623474" "6689103").PN.	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 13:57
S2	5	604/19 and (catheter and needle and biopsy and port and sensor)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:05
S3	21	604/19 and (catheter and needle and biopsy and port)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:05
S4	421	"604" and (catheter and needle and biopsy and port and sensor)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:06
S5	421	S4 and biopsy	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:06
S6	396	S4 and inject\$4	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:06
S7	374	S6 and rotat\$5	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:07
S8	3	S7 and (604/19 or 604/31,44,506,508,511,513,65,163,161,164,165.04)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:09
S9	31	604/19 and (biopsy and catheter and needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:10
S10	15	604/506 and (biopsy and catheter and needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:19
S11	10	604/508 and (biopsy and catheter and needle and inject\$4)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:19
S12	257	604/264 and (needle and port and sheath and inject\$4)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:26
S13	25	S12 and biopsy	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:26

## EAST Search History

S14	33	("4314565"   "4481946"   "4486188"   "4513754"   "4630616"   "4664128"   "4900303"   "5257632"   "5331972"   "5419777"   "5531672"   "5591159"   "5607421"   "5693029"   "5782824"   "5810836"   "5840059"   "5876373"   "5885272"   "5904670"   "5968059"   "5980548"   "6086582"   "6102887"   "6117130"   "6126654"   "6171251"   "6203556"   "6217554"   "6224584"   "6226554"   "6302870"   "6526320").PN. OR ("6835193").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/16 14:29
S15	0	S14 and (needle and inject\$4 and biopsy)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:32
S16	33	("4314565"   "4481946"   "4486188"   "4513754"   "4630616"   "4664128"   "4900303"   "5257632"   "5331972"   "5419777"   "5531672"   "5591159"   "5607421"   "5693029"   "5782824"   "5810836"   "5840059"   "5876373"   "5885272"   "5904670"   "5968059"   "5980548"   "6086582"   "6102887"   "6117130"   "6126654"   "6171251"   "6203556"   "6217554"   "6224584"   "6226554"   "6302870"   "6526320").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/16 14:35
S17	1377	604/264 and (catheter and needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:36
S18	89	S17 and (inject\$4 and biopsy)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:37
S19	20	("5190050"   "5273535"   "5328467"   "5397321"   "5431168"   "5545200"   "5555618"   "5571073"   "5582609"   "5643255"   "5656029"   "5662606"   "5676653"   "5685868"   "5772641"   "5820591"   "5827278"   "5964757"   "6066125").PN. OR ("6287301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/16 14:44
S20	603	catheter and needle and biopsy and inject\$3 and sheath and port	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:49

## EAST Search History

S21	581	S20 and (steerable or control or rotate)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:50
S22	417	S21 and ("604" or "606")	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:50
S23	417	S22 and port	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:51
S24	376	S23 and (cardiac or heart)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:51
S25	393	S23 and "604"	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:54
S26	16	S23 and 604/264	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:58
S27	94	604/264 and (biopsy adj needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:58
S28	41	S27 and catheter	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:59
S29	17	S27 and catheter and sheath	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 14:59
S30	14	S29 and (hole or port)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:00
S31	8	(US-20020099307-\$).did. or (US-6273861-\$ or US-5599300-\$ or US-6156006-\$ or US-6835193-\$ or US-5810836-\$ or US-6287301-\$ or US-5964757-\$).did.	US-PGPUB; USPAT	OR	ON	2005/05/16 15:01
S32	8	S31 and needle	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:01
S33	10	S1 and port	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:05
S34	172	"604" and ((biopsy adj needle) and catheter)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:08
S35	68	S34 and port	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:09

## EAST Search History

S36	68	S35 and biopsy	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:09
S37	13	S35 and inject	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:10
S38	47	S36 and (sheath or sleeve)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:10
S39	7	S37 and (sheath or sleeve)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:10
S40	1	"5312361".pn.	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:16
S41	2	604/165.04 and biopsy	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:16
S42	46	604/165.04 and needle	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:16
S43	17	604/508 and biopsy	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:18
S44	377	needle adj port	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:19
S45	10	S44 and biopsy and catheter	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:19
S46	182	604/117 and catheter and needle and (port or aperture or hole)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:43
S47	23	S46 and biopsy	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:45
S48	1	"5312361".pn.	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:48
S49	10	(US-20020099307-\$ or US-20020151850-\$).did. or (US-5599300-\$ or US-5810836-\$ or US-5964757-\$ or US-6156006-\$ or US-6273861-\$ or US-6287301-\$ or US-6835193-\$ or US-5312361-\$). did.	US-PGPUB; USPAT	OR	ON	2005/05/16 15:54

## EAST Search History

S50	10	S49 and (hole or port or aperture) and catheter	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:54
S51	23	("4680027"   "4953558"   "5172701"   "5195533"   "5213110"   "5234000"   "5282476"   "5312023"   "5368045"   "5474539"   "5480388"   "5544670"   "5564436"   "5611352"   "5636780"   "5711472"   "5817033"   "5980545"   "5989197"   "6197041").PN. OR ("6273861").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/16 15:54
S52	114682	600/567, "562", "564"	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:58
S53	1953	S52 and (needle and catheter)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:59
S54	474	S53 and (biopsy and (hole or port or aperture) and injection)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:01
S55	80	S54 and (automatic)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 15:59
S56	89	600/567 and (needle and catheter)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:11
S57	49	600/562 and (needle and catheter)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:12
S58	5	600/167 and (needle and catheter)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:13
S59	314	606/167 and (needle and catheter)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:13
S60	17	(US-20020099307-\$ or US-20020151850-\$).did. or (US-5599300-\$ or US-5810836-\$ or US-5964757-\$ or US-6156006-\$ or US-6273861-\$ or US-6287301-\$ or US-6835193-\$ or US-5312361-\$ or US-5989197-\$ or US-5611352-\$ or US-5564436-\$ or US-5368045-\$ or US-4953558-\$ or US-6106524-\$ or US-5287857-\$).did.	US-PGPUB; USPAT	OR	ON	2005/05/16 16:22

## EAST Search History

S61	7	S60 and "sheath"	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:22
S62	12	S60 and catheter	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:57
S63	5	S60 and sensor	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 16:58
S64	7	S60 and inject\$4	US-PGPUB; USPAT; EPO	OR	ON	2005/05/16 17:32
S65	33	("4314565"   "4481946"   "4486188"   "4513754"   "4630616" "4664128"   "4900303"   "5257632"   "5331972"   "5419777" "5531672"   "5591159"   "5607421"   "5693029"   "5782824" "5810836"   "5840059"   "5876373"   "5885272"   "5904670" "5968059"   "5980548"   "6086582"   "6102887"   "6117130" "6126654"   "6171251"   "6203556"   "6217554"   "6224584" "6226554"   "6302870"   "6526320").PN. OR ("6835193"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/17 08:39
S66	40	("2554352"   "2691372"   "4994067"   "5002067"   "5016640" "5030204"   "5236424"   "5324325"   "5378234"   "5385148" "5405376"   "5431649"   "5441499"   "5447533"   "5531780" "5542926"   "5551427"   "5609151"   "5661133"   "5698531" "5704910"   "5722400").PN. OR ("6102887").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/17 08:50
S67	20	(US-20020151850-\$ or US-20020099307-\$).did. or (US-4953558-\$ or US-6102887-\$ or US-5989197-\$ or US-6273861-\$ or US-6156006-\$ or US-5368045-\$ or US-6106524-\$ or US-6835193-\$ or US-6203556-\$ or US-5564436-\$ or US-5810836-\$ or US-5611352-\$ or US-6117130-\$ or US-5287857-\$ or US-5964757-\$ or US-6287301-\$ or US-5599300-\$ or US-5312361-\$). did.	US-PGPUB; USPAT	OR	ON	2005/05/17 09:46

## EAST Search History

S68	0	S67 and (rotate adj needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/17 09:47
S69	0	S67 and (rotate near needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/17 09:47
S70	3	S67 and (rotate with needle)	US-PGPUB; USPAT; EPO	OR	ON	2005/05/17 09:47
S71	20	(US-20020151850-\$ or US-20020099307-\$).did. or (US-4953558-\$ or US-6102887-\$ or US-5989197-\$ or US-6273861-\$ or US-6156006-\$ or US-5368045-\$ or US-6106524-\$ or US-6835193-\$ or US-6203556-\$ or US-5564436-\$ or US-5810836-\$ or US-5611352-\$ or US-6117130-\$ or US-5287857-\$ or US-5964757-\$ or US-6287301-\$ or US-5599300-\$ or US-5312361-\$). did.	US-PGPUB; USPAT	OR	ON	2005/12/29 16:31
S72	0	S71 and (catheter with needle with biopsy with sheath)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/29 16:32
S73	1	S71 and (catheter with needle with tissue with sheath)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/29 16:48
S74	26	("20010004676" "20020026126" "2 0020055689" "20020095124" "2003 0171723" "4763667" "5201721" "52 87857" "5312361" "5336252" "5535 756" "5715832" "5738109" "577964 6" "5797849" "5931787" "5957863"  "6102867" "6102887" "6254573" " 6321109" "6540725" "6575931" "66 23473" "6623474" "6689103").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/29 16:48

## EAST Search History

S75	55	("3606878"   "3732858"   "3830225"   "3929126"   "4099518"   "4249541"   "4396021"   "4411055"   "4465072"   "4617940"   "4619263"   "4620547"   "4640296"   "4641654"   "4681123"   "4692200"   "4693257"   "4708147"   "4723936"   "4762130"   "4763667"   "4763668"   "4781202"   "4790315"   "4793350"   "4793351"   "4815478"   "4819635"   "4832048"   "4844087"   "4850373"   "4867156"   "4873991"   "4877030"   "4877031"   "4877037"   "4887613"   "4903709"   "4925450"   "4932959"   "4953559"   "4961430"   "5011490"   "5135483").PN. OR ("5287857").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/30 09:23
S76	4215	(604/95.01,157,198,264,272).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/30 11:09
S77	0	S76 and (biopsy with needle with catheter with sheath with (hole or port))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:12
S78	11	S76 and (biopsy with needle with catheter and sheath and (hole or port))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:17
S79	0	("2002095124").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/30 11:18
S80	0	("2002095124").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/30 11:18
S81	71	palasis-maria.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:18
S82	2563	(604/21,22,27,511).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/30 11:35
S83	0	S82 and (biopsy with needle with catheter)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:35



## EAST Search History

S84	15	S82 and (biopsy and needle with catheter)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:43
S85	1972	(604/164.01,164.12,171,187,188). CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/30 11:43
S86	10	S85 and (biopsy with needle with catheter)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:48
S87	425	(biopsy with needle with catheter)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:48
S88	0	(biopsy with needle with catheter with sheath with ((side adj port) or (side adj hole)))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:49
S89	23	(biopsy with needle with catheter with sheath)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:49
S90	23	S89 not (S86 or S84)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 11:50
S91	55	("3606878"   "3732858"   "3830225"   "3929126"   "4099518"   "4249541"   "4396021"   "4411055"   "4465072"   "4617940"   "4619263"   "4620547"   "4640296"   "4641654"   "4681123"   "4692200"   "4693257"   "4708147"   "4723936"   "4762130"   "4763667"   "4763668"   "4781202"   "4790315"   "4793350"   "4793351"   "4815478"   "4819635"   "4832048"   "4844087"   "4850373"   "4867156"   "4873991"   "4877030"   "4877031"   "4877037"   "4887613"   "4903709"   "4925450"   "4932959"   "4953559"   "4961430"   "5011490"   "5135483").PN. OR ("5287857").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/30 12:01
S92	1848	((600/562,564,567,568) or (606/184)).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/12/30 14:23

## EAST Search History

S93	3	S92 and (biopsy with needle with catheter with sheath)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 14:25
S94	34	S92 and (biopsy with needle with catheter)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 14:26
S95	31	S94 not S93	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 14:26
S96	32	(US-20020026126-\$ or US-20020151850-\$ or US-20020099307-\$ or US-20010004676-\$ or US-20020095124-\$).did. or (US-4953558-\$ or US-6102887-\$ or US-5989197-\$ or US-5425376-\$ or US-6273861-\$ or US-6156006-\$ or US-5368045-\$ or US-6106524-\$ or US-6835193-\$ or US-6203556-\$ or US-5011490-\$ or US-4708147-\$ or US-5477862-\$ or US-5564436-\$ or US-5810836-\$ or US-4781202-\$ or US-5611352-\$ or US-6117130-\$ or US-5287857-\$ or US-4763667-\$ or US-5964757-\$ or US-6575931-\$ or US-6540725-\$ or US-6287301-\$ or US-4702260-\$ or US-5599300-\$). did. or (US-5312361-\$).did.	US-PGPUB; USPAT	OR	ON	2005/12/30 14:37
S97	1	S96 and (sensor and driver)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 14:38
S98	3	S96 and (sensor and motor)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 14:38
S99	10	S96 and (sensor)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/12/30 14:38
S10 0	1	("20050096642").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/01/01 12:58
S10 1	1	("20050087198").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/01/01 12:58

## EAST Search History

S10 2	1	("6102887").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/08/22 10:30
S10 3	31	(US-20020026126-\$ or US-20020151850-\$ or US-20020099307-\$ or US-20010004676-\$ or US-20020095124-\$).did. or (US-4953558-\$ or US-5989197-\$ or US-5425376-\$ or US-6273861-\$ or US-6156006-\$ or US-5368045-\$ or US-6106524-\$ or US-6835193-\$ or US-6203556-\$ or US-5011490-\$ or US-5477862-\$ or US-4708147-\$ or US-5564436-\$ or US-5810836-\$ or US-4781202-\$ or US-5611352-\$ or US-6117130-\$ or US-5287857-\$ or US-4763667-\$ or US-6575931-\$ or US-6540725-\$ or US-5964757-\$ or US-6287301-\$ or US-4702260-\$ or US-5599300-\$ or US-5312361-\$). did.	US-PGPUB; USPAT	OR	ON	2006/08/22 10:31
S10 4	2	S103 and (rotate with needle)	US-PGPUB; USPAT	OR	ON	2006/08/22 10:33
S10 5	85	600/567 and (rotate with needle)	US-PGPUB; USPAT	OR	ON	2006/08/22 10:39
S10 6	1	600/567 and (rotate with needle) and (sensor with needle)	US-PGPUB; USPAT	OR	ON	2006/08/22 10:40
S10 7	17	600/567 and (sensor with needle)	US-PGPUB; USPAT	OR	ON	2006/08/22 10:40
S10 8	1	("20050222518").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/08/22 10:50